

**Synonym**

ICOSLG,B7-H2,B7H2,B7RP-1,B7RP1,CD275,GL50,ICOS-L,ICOSL,LICOS,ICOS ligand

**Source**

Human B7-H2, His Tag (B72-H5221) is expressed from human 293 cells (HEK293). It contains AA Asp 19 - Ser 258 (Accession # NP\_056074).

Predicted N-terminus: Asp 19

**Molecular Characterization**

B7-H2(Asp 19 - Ser 258)  
NP\_056074 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 27.8 kDa. The protein migrates as 45-67 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

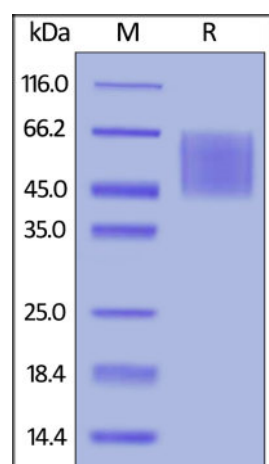
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

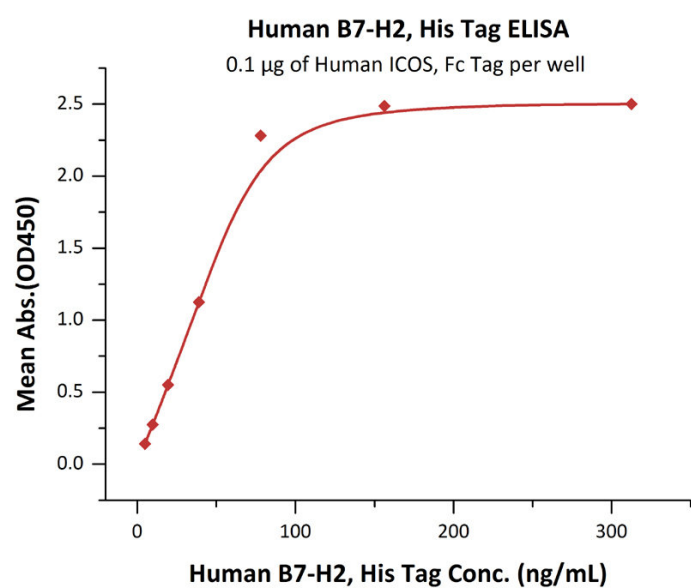
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Human B7-H2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA**



Immobilized Human ICOS, Fc Tag (Cat. No. [ICS-H5258](#)) at 1 µg/mL (100 µL/well) can bind Human B7-H2, His Tag (Cat. No. [B72-H5221](#)) with a linear range of 5-78 ng/mL (QC tested).

## Background

ICOS ligand (ICOSLG) is also known as B7 homolog 2 (B7-H2), B7-related protein 1 (B7RP-1) and CD antigen CD275, which belongs to the immunoglobulin superfamily and BTN/MOG family. ICOSLG contains one Ig-like C2-type (immunoglobulin-like) domain and one Ig-like V-type (immunoglobulin-like) domain. Isoform 1 is widely expressed, while isoform 2 is detected only in lymph nodes, leukocytes and spleen. B7-H2 is ligand for the T-cell-specific cell surface receptor ICOS. B7-H2 acts as a costimulatory signal for T-cell proliferation and cytokine secretion and induces also B-cell proliferation and differentiation into plasma cells. B7-H2 could play an important role in mediating local tissue responses to inflammatory conditions, as well as in modulating the secondary immune response by co-stimulating memory T-cell function.

## References

- (1) [Aicher A., et al., 2000, J. Immunol. 164:4689-4696.](#)
- (2) [Yoshinaga SK., et al., Int Immunol 12.\(10\): 1439-47.](#)

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.